

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/536,801-Conf. #4528
				Filing Date	December 9, 2005
				First Named Inventor	Graham R. Eastham
				Art Unit	1625
				Examiner Name	T. V. Oh
Sheet	1	of	6	Attorney Docket Number	31229-218465

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	AA*	US-4,517,061-A	05-14-1985	Jean-Francois Fauvarque		
	AB*	US-4,900,413-A	02-13-1990	Masato TANAKA et al.		
	AC*	US-5,245,098-A	09-14-1993	Fernando J. HAMILTON et al.		
	AD*	US-6,348,621-B1	02-19-2002	Wang et al.		
	AE*	US-4,504,684	03-12-1985	Joseph R. FOX et al.		
	AF*	US-5,246,558	09-21-1993	Chevigne et al.		
	AG*	US-20050090694	04-28-2005	Drent et al.		
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	AJ*	US-5,563,308	10-08-1996	Spindler et al.		
	AK*	US-5,760,264	06-02-1998	Brieden		
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	AM*	US-6,015,919	01-18-2000	Pugin		
	AN*	US-6,169,192	01-02-2001	Pugin et al.		
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	AQ*	US-6,284,925	09-04-2001	Knochel et al.		
	AR*	US-6,337,406	01-08-2002	Zhang		
	AS*	US-6,521,769	02-18-2003	Zhang		

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Examiner Initials*	Cite No.†	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
	BA	WO-01/10551	02-15-2001	INEOS Acrylics UK LTD.		
	BB	WO-03/040159	05-15-2003	Shell Internationale Research		
	BC	WO-98/45040	10-15-1998	DSM N.V.		
	BD	EP-0144118	06-12-1985	Standard Oil Co Ohio		
	BE	WO-03070370	08-28-2003	Shell Int Research et al.		
	BF	WO-0212161	02-14-2002	Kvaerner Process Tech Ltd et al.		

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	BG	WO-2004014552	02-19-2004	Lucite Int Uk Ltd et al.		
	BH	WO-2004/050599-A1	06-17-2004	Lucite Int Uk Ltd et al.		
	BI	WO-2004/014834-A1	02-19-2004	Lucite Int Uk Ltd et al.		
	BJ	WO-2005/003070-A1	01-13-2005	Lucite Int Uk Ltd et al.		
	BK	WO-2004/024322-A2	03-25-2004	Lucite Int Uk Ltd et al.		
	BL	WO-2005/079981-A1	09-01-2005	Lucite Int Uk Ltd et al.		
	BM	WO-98/41495	09-24-1998	IMPERIAL CHEMICAL INDUSTRIES PLC		
	BN	WO-04/103948	12-02-2004	Shell Internationale		
	BO	WO-05/082830	09-09-2005	Shell Internationale Research		
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	BQ	EP-0577205-A2	01-05-1994	Shell Int Research		
	BR	EP-0728733-A1	08-28-1996	Dsm Nv et al.		
	BS	EP-0305089-A1	03-01-1989	British Petroleum Co Plc		
	BT	FR-2034147-A5	12-11-1970	Inst Francais Du Petrole		

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	CA	WANG et al., "POLYMER-BOUND BIDENTATE-PHOSPHINE-PALLADIUM COMPLEX AS A CATALYST IN THE HECK ARYLATION", J. Org. Chem., Vol. 59, No. 18, 1994, pages 5358-5364.	
	CB	HOFMANN et al., "BIS(DI-T-BUTYLPHOSPHINO)METHANE COMPLEXES OF RHODIUM: HOMOGENEOUS ALKYNE HYDROSILYLATION BY CATALYST-DEPENDENT ALKYNE INSERTION INTO Rh-Si OR Rh-H BONDS. MOLECULAR STRUCTURES OF THE DIMER [(dtbpm) RhCl] <sub>2</sub> AND OF THE SILYL COMPLEX (dtbpm) Rh[Si(OEt) <sub>3</sub> (PMes) <sub>3</sub> ]", Journal of Organometallic Chemistry, Vol. 490, 1995, pages 51-70.	
	CC	LINDNER et al., "CATALYTIC ACTIVITY OF CATIONIC DIPHOSPALLADIUM (II) COMPLEXES IN THE ALKENE/CO COPOLYMERIZATION IN ORGANIC SOLVENTS AND WATER IN DEPENDENCE ON THE LENGTH OF THE ALKYL CHAIN AT THE PHOSPHINE LIGANDS", Journal of Organometallic Chemistry, Vol. 602, 2000, pages 173-187.	
	CD	RICHMOND et al., "PREPARATION OF NEW CATALYSTS BY THE IMMOBILIZATION OF PALLADIUM(II) SPECIES ONTO SILICA: AN INVESTIGATION OF THEIR CATALYTIC ACTIVITY FOR THE CYCLIZATION OF AMINOALKYNES", J. Am Chem. Soc., Vol. 123, 2001, pages 10521-10525.	
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	CF	JONES et al., "RHODIUM-CATALYZED ACTIVATION AND FUNCTIONALIZATION OF THE C-C BOND OF BIPHENYLENE", Organometallics, Vol. 20, 2001, pages 5745-5750.	
	CG	"Highly active [Pd(AcO) <sub>2</sub> (dppp)] catalyst for the CO-C <sub>2</sub> H <sub>4</sub> copolymerization in H <sub>2</sub> O-CH <sub>3</sub> COOH solvent [dppp = 1,3-bis (diphenylphosphino)propane]" Andrea VAVASORI et al., Journal of Molecular Cat. A. Chem., vol. 204-205, 2003, pp 295-303	
	CH	"Hydroesterification of styrene using an in situ formed Pd(OTf) <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> complex catalyst", A. Seayad et al., Journal of Molecular Cat. A. Chem., vol. 151, 2000, pp 47-59	
	CI	"Carbon monoxide-ethylene copolymerization catalyzed by a Pd(AcO) <sub>2</sub> (dppp)TsOH <sup>1</sup> system: the promoting effect of water and of the acid", Journal of Molecular Cat. A. Chem., vol. 110, 1996, pp 13-23	
	CJ	CLEGG, W. ET AL: "Highly active and selective catalysts for the production of methyl propanoate via the methoxycarbonylation of ethene" CHEM. COMMUN., 1999, pages 1877-1878	
	CK	KNIGHT ET AL: "Remarkable Differences in Catalyst Activity and Selectivity to the production of Methyl Propanoate versus CO-Ethylene Copolymer by a Series of palladium Complexes of Related C4-Bridged Diphosphines" Organometallics 2000, 19 4957-4967	

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	CL	RUCKLIDGE ET AL.: "Methoxycarbonylation of vinyl acetate catalysed by palladium complexes of bis(ditertiarybutylphosphinomethyl) benzene and related ligands" CHEM. COMMUN., 2005, pages 1176-1178	
	CM	Brunkan et al. "Effect of chiral cavities associated with molecularly imprinted platinum centers on the selectivity of ligand-exchange reactions at platinum", Journal of American Chemical Society, no. 22, pages 6217-6225, (2000).	
	CN	Brunkan et al. "Unorthodox C,O binding mode of Me <sub>2</sub> BINOL in Pt(II) complexes", Journal of American Chemical Society, no. 120, pages 11002-11003, (1998).	
	CO	Andrews et al. "Regioselective complexation of unprotected carbohydrates by Platinum(II); Synthesis, structure, complexation equilibria, and hydrogen-bonding in carbonate-derived bis(phosphine)platinum(II) diolate and aldolate complexes", Journal of American Chemical Society, no. 116, pages 5730-5740, (1994).	
	CP	Hartwig, et al. "Structure and reactions of oxametallacyclobutenes and oxametallacyclobutenes of ruthenium", Organometallics, vol. 10, no. 9, pages 3344-3362 (1991)	
	CQ	Konno et al. "Preparation and spectroscopic characteristics of geometrical isomers of bis(1,2-bis(dimethylphosphino)ethane)cobalt(III) complexes with thiolate ligands", The Chemical Society of Japan, no. 62, pages 3475-3478, (1989).	
	CR	Cecconi et al. "Palladium complexes with the tripodal phosphine tris(2-diphenylphosphinoethyl)amine. Synthesis and structure of trigonal, tetrahedral, trigonal bipyramidal, and square planar complexes", J. Chem. Soc. Dalton Trans., issue 1, pages xvii - xx, (1989).	
	CS	Miskowski et al. "Preparation and spectroscopic properties of Cobalt(III) complexes containing phosphine ligands. The electronic structural description of side-bonded dioxygen", Journal of American Chemical Society, vol. 98, no. 9, pages 2477-2483, (1976).	
	CT	Hayward et al. "Some reactions of peroxobis (triphenylphosphine)platinum(II) and analogs with carbon dioxide, carbon disulfide, and other unsaturated molecules", Journal of American Chemical Society, vol. 92, issue 20, pages 5873-5878, (1970).	
	CU	Osman, Serindag "Synthesis of some platinum(II) diphosphine complexes of the type [PtX <sub>2</sub> (P-P)] (X <sub>2</sub> = CO <sub>3</sub> ; X = CH <sub>3</sub> COO, CF <sub>3</sub> COO, NCO)", Synth. React. Inorg. Met.-Org. Chem., vol. 27, no. 1, pages 69-76, (1997).	
	CV	Andrews et al. "Syntheses, spectra and structures of (diphosphine)platinum(II) carbonate complexes" Inorganic Chemistry, no. 35, pages 5478-5483, (1996).	
	CW	Lalif et al. "Square planar platinum(II) complexes, crystal structures of cis-bis(triphenylphosphine) hydro(triphenylstannyl) platinum(II) and cis-bis(triphenylphosphine) hydro(triphenylsilyl) platinum(II)", Journal of Organometallic Chemistry, no. 474, pages 217-221, (1994).	

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	CX	Becker et al. "Synthesis and characterization of chiral diphosphine platinum(II) VANOL and VAPOL complexes", <i>Organometallics</i> , no. 22, pages 3245-3249, (2003).	
	CY	Becker et al. "Imprinting chiral information into rigidified dendrimers", <i>Organometallics</i> , no. 22, pages 4984-4998, (2003).	
	CZ	Peng et al. "Chiral rodlike platinum complexes, double helical chains and potential asymmetric hydrogenation ligand based on "linear" building blocks: 1,8,9,16-tetrahydroxytetraphenylene and 1,8,9,16-tetrakis(diphenylphosphino)tetraphenylene" <i>Organometallics</i> , no. 127, pages 9603-9611, (2005).	
	CA1	Wen et al. "Synthesis, resolution, and applications of 1,16-dihydroxytetraphenylene as a novel building block in molecular recognition and assembly", <i>Journal of Organic Chemistry</i> , no. 68, pages 8918-8931, (2003).	
	CB1	Mikami et al. "Molecular design of DABNTf as a highly efficient resolving reagent for racemic Pd complex with <i>tropos</i> biphenylphosphine (BIPHEP) ligand: circular dichroism (CD) spectra of enantiopure BIPHEP-Pd complex", <i>Chirality</i> , no. 15, pages 105-107, (2003).	
	CC1	Tudor et al. "Diastereoisomer interconversion in chiral BiphepPtX <sub>2</sub> complexes", <i>Journal of American Chemical Society</i> , no. 19, pages 4376-4384, (2000).	
	CD1	Bellabarba et al., "Synthesis, X-ray characterization and reactions of a trigonal planar palladium(I) carbonyl complex", <i>Chemical Communications</i> , no. 15, pages 1916-1917, (2003).	
	CE1	Clegg et al., "Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Journal of the Chemical Society, Dalton Transactions</i> , no. 17, pages 3300-3308 (2002).	
	CF1	Clegg et al., "Characterisation and dynamics of [Pd(L-L)H(solvent)] <sup>+</sup> , [Pd(L-L)(CH <sub>2</sub> CH <sub>3</sub> )] <sup>+</sup> and [Pd(L-L)(C(=O)Et)(THF)] <sup>+</sup> (L-L = 1,2-(CH <sub>2</sub> PBu <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> ): key intermediates in the catalytic methoxycarbonylation of ethane to methylpropanoate", <i>Organometallics</i> , vol. 21, no. 9, pages 1832-1840 (2002).	
	CG1	Edelbach et al., "Catalytic hydrogenolysis of biphenylene with platinum, palladium, and nickelphosphine complexes", <i>Organometallics</i> , vol. 17, no. 22, pages 4784-4794 (1998).	
	CH1	Kim et al., "Synthesis and theoretical study of palladium (II) complexes with aminophosphines as 7-membered chelate rings", <i>Bulletin of the Korean Chemical Society</i> , vol. 18, no. 11, pages 1162-1166 (1997).	
	CI1	Reddy et al., "Unexpected cross-metathesis between Si-C and Si-Si bonds", <i>Chemical Communications</i> , no. 16, pages 1865-1866 (1996).	
	CJ1	Uchimaru et al., "Ring-opening polymerization of 1,1,2,2-tetramethyl-1,2-disilacyclopentane via palladium complex-catalysed Si-Si bond metathesis", <i>Chemistry Letters</i> , no. 2, page 164 (1995).	

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	CK1	Portnoy et al., "Reactions of electron-rich arylpalladium complexes with olefins. Origin of the chelate effect in vinylation catalysis", <i>Organometallics</i> , vol. 13, no. 9, pages 3465-3479 (1994).	
	CL1	Wurst et al., "Synthesis and structure of the platinum (0) compounds [(dipb)Pt]2(COD) and (dipb)3Pt2 and of the cluster Hg6[Pt(dipb)]4 (dipb = (iPr)2P(CH2)4P(i-Pr)2)", <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , vol. 395, pages 239-250 (1991).	
	CM1	Tanaka et al., "Synthesis of ketones via carbonylation of organic halides. II. Palladium-catalyzed carbonylation of organic halides with terminal acetylenes in the presence of amines. Novel acetylenic ketone synthesis", <i>Nippon Kagaku Kaishi</i> , no. 3, pages 537-546 (1985).	
	CN1	Molander et al., "Synthesis and application of chiral cyclopropane-based ligands in palladium-catalyzed allylic alkylation", <i>Journal of Organic Chemistry</i> , vol. 69, no. 23, pages 8062-8069 (2004).	
	CO1	Brauer et al., "Reactions of coordinated ligands. XIV. Synthesis of a tetradentate phosphorus macrocycle in a palladium (II) template", <i>Chemische Berichte</i> , vol. 119, no. 1, pages 349-365 (1986).	
	CP1	Dias et al., "Synthesis and characterization of .eta.5-monocyclopentadienyl (p-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies", <i>Journal of Organometallic Chemistry</i> , vol. 475, no. 1-2, pages 241-245 (1994).	
	CQ1	PUGH, R. I. et al. "Tandem isomerisation-carbonylation catalysis: highly active palladium(II) catalysts for the selective methoxycarbonylation of internal alkenes to linear esters", <i>Chemical Communications - CHEMCOM</i> , Royal Society of Chemistry, GB, no. 16, (August 21, 2001), pages 1476-1477.	
	CR1	Cullen et al. "Structure of the Hydrogenation Catalyst [(PP)Rh(NBD)]ClO4, (PP) = (5-[(CH3)3C]2PC5H4)2Fe, and Some Comparative Rate Studies," <i>Organometallics</i> , vol. 2, pp. 714-719, 1983.	
	CS1	Abbenhuis et al., "Successful Application of a "Forgotten" Phosphine in Asymmetric Catalysis: A 9-Phosphabicyclo[3.3.1]non-9-yl Ferrocene Derivative as a Chiral Ligand," <i>Organometallics</i> , vol. 14, pp. 759-766, 1995.	

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
	1	of	3	Application Number	10/536,801-Conf. #4528
				Filing Date	December 9, 2005
				First Named Inventor	Graham R. Eastham
				Art Unit	1625
				Examiner Name	T. V. Oh
Sheet				Attorney Docket Number	31229-218465

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	AC*	US-4,960,926	10-02-1990	Drent	
	AD*	US-5,258,546	11-02-1993	Klusener et al.	
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	AR*	US-6,156,934	12-05-2000	Suykerbuyk et al.	
	AS*	US-6,982,357	01-03-2006	Crabtree et al.	

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	BA	WO-96/19434	06-27-1996	Imperial Chemical Industries PLC	
	BB	EP-0495348-A1	07-22-1992	Koenig Wolfgang	
	BC	EP-0495347-A1	07-22-1992	Analisis Sa	
	BD	EP-0495548	07-22-1992	Shell Int Research	
	BE	WO-9708124-A1	03-06-1997	Du Pont et al.	

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	AT*	US-20060252935	11-09-2006	Eastham et al.	
	AU*	US-20060128985	06-15-2006	Eastham et al.	
	AV*	US-20060106259	05-18-2006	Eastham et al.	
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	AY*	US-5,710,344	01-20-1998	Breikss et al.	
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	AA1*	US-20080086015	04-10-2008	Eastham	
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	AC1*	US-4,960,949	10-02-1990	Devon et al.	
	AD1*	US-6,284,919	09-04-2001	Pearson et al.	
	AE1*	US-6,476,255	11-05-2002	Hadden et al.	
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	AH1*	US-6,391,818	05-21-2002	Bonsel et al.	
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	AJ1*	US-7,148,176	12-12-2006	Beller et al.	
	AK1*	US-6,462,095	10-08-2002	Bonsel et al.	

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	BH	WO-01/85662-A2	11-15-2001	Basf Ag et al.	
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	BL	DE-19754304-A1	06-10-1999	Hoechst Ag	US6,391,818	
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	BN	EP-0879642-A2	11-25-1998	Hoechst Res & Tech GmbH & Co		
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	BP	WO-2005118519-A1	12-15-2005	Lucite Int Uk Ltd et al.		
	BQ	WO-01/28972-A1	04-26-2001	Shell Int Research et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	†
	CA*	Related U.S. Patent Application No. 10/524,023, filed November 17, 2005, Eastham et al.	
	CB	OLAH, GEORGE A., et al., "AlCl <sub>3</sub> -Catalyzed Dichlorophosphorylation of Saturated Hydrocarbons with PCl <sub>3</sub> in Methylene Chloride Solution," <i>J. Org. Chem.</i> , 1990, 55, 1224-1227.	
	CC	WEI-YONG YU, et al., "Preparation of Polymer-Protected Pt/Co Bimetallic Colloid and its Catalytic Properties in Selective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol," <i>Polymers FOR Advanced Technologies</i> , GB, John Wiley and Sons, Chichester, August 1, 1996, 719-722, Vol. 7, no. 8.	

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